



UNIVERSIDADE PRESBITERIANA MACKENZIE

Pró-Reitoria de Pesquisa e Pós-Graduação
Coordenadoria Geral de Pós-Graduação Stricto Sensu



Course Syllabus

Department/Faculty: School of Engineering
Graduate Program: Materials Engineering and Nanotechnology
Degree <input checked="" type="checkbox"/> Academic Master's <input checked="" type="checkbox"/> Doctorate (PhD) <input type="checkbox"/> Professional Master's
Course Name: Scientific Research Methodology
Professor: Prof. Dr. Christiano J. S. de Matos
Office hours 48
Course Overview: <p>In this module, we will discuss essential elements for the development of a researcher at the master's and/or doctoral level, which complement research activities. The main focus is on analysing the structure of scientific texts (such as research articles and project proposals), with the aim of developing the necessary skills for writing these texts. In addition, we will explore the concept of good scientific practices and the use of various tools to support bibliographic research and academic writing.</p>
Topics outline <ol style="list-style-type: none">1. Introduction to tools for supporting bibliographic research and scientific writing2. Analysis of the structure of scientific articles, identifying their key components3. Discussion of the elements of a scientific research proposal4. Writing and analysis of a scientific proposal related to the student's research project5. Discussion on the writing of scientific reports6. Discussion of good practices for ethical and collaborative research
Letter Grade Assignment Grade A (Excellent) - Grade points between 9 and 10 Grade B (Good) - Grade points between 8 and 8.9 Grade C (Satisfactory) - Grade points between 7 and 7.9 Grade D (Unsatisfactory) - Grade points between 0 and 6.9



Texts, Materials, and supplies

Basic Bibliography:

- NATIONAL ACADEMY OF SCIENCES; NATIONAL ACADEMY OF ENGINEERING; INSTITUTE OF MEDICINE. *On Being a Scientist: A Guide to Responsible Conduct in Research*. 3rd ed. Washington, D.C.: National Academy Press, 2009.
- Scientific articles provided by the students
- Postgraduate Programme Scholarship Announcements
- Guidelines for Submission and Selection of Proposals for the Master's Scholarship Programme – FAPESP

Supplementary Bibliography:

- Schuster, E.; Levkowitz, H.; Oliveira Jr., O. N. *Writing Scientific Papers in English Successfully: Your Complete Roadmap*. Hypertek.Com, Inc., 2014.